



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service
Indian Health Service
Office of Environmental Health & Engineering

5448 South White Mountain Blvd
Suite 220
Lakeside, AZ 85929

June 9, 2014

Ms. Linda Reeves
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Dear Ms. Reeves,

The Hopi Tribe has designated the IHS as the lead federal agency for the HAMP, to receive and administer DWTSA funds, and to expend those funds towards completion of the HAMP.

The IHS respectfully submits the following cost estimate in consideration of 2014 Drinking Water Tribal Set-Aside (DWTSA) funding towards the Hopi Arsenic Mitigation Project (HAMP).


The HAMP is a cooperative project of the Hopi Tribe, the Hopi Villages of First and Second Mesas, the EPA, and the IHS. As envisioned, the HAMP will provide a sufficient quantity of high quality arsenic compliant water to First and Second Mesas, and is the mechanism identified by the EPA compliance plans with the Villages of First and Second Mesa to bring those Villages' water systems into Safe Drinking Water Act compliance.

The HAMP has been the beneficiary of DWTSA funds in the past, with those funds currently being used in part to drill the Turquoise Trail Wells #2 and #3. This request for 2014 DWTSA funds will provide construction funding for a portion of the HAMP facilities within Sipaulovi and Mishongnovi. Specifically, it is proposed to construct the Upper Sipaulovi-Mishongnovi Water Storage Tank, approx. 10,000 LF of water main to connect the existing Sipaulovi-Mishongnovi water distribution system to the proposed tank, and to construct a Sipaulovi-Mishongnovi disinfection facility, as needed.

Construction would commence after completion of all NEPA requirements, engineering design, and creation of engineering plans and specifications. Construction could likely commence as early as June 2016 and would be expected to last approximately six months.

Whereas 2014 DWTSA funds are proposed for HAMP construction (as opposed to planning and/or well drilling), a new interagency agreement between the EPA and IHS is recommended.

Sincerely,


for Robert Lorenz, PE
District Engineer

cc: Lionel Puhuyesva, Hopi Water Resources Director
Adam Hughes, PE, Indian Health Service
Bessie Lee, US EPA Region IX

Hopi Arsenic Mitigation Project
Date: 6/9/14
Prepared By: Adam E Hughes, PE

UPPER SIPAULOV/MISHONGNOVI 2014 DWTS HAMP COST ESTIMATE

Schedule A: Project Planning & Design

Item	Description	Quantity	Units	Units Cost	Total
1	Geotechnical Investigation (as needed for WST)	1	LS	\$ 25,000.00	\$ 25,000.00
Planning & Design Total:					\$ 25,000.00

Schedule B: Construction

Item	Description	Quantity	Units	Units Cost	Total
2	6" Water Main, 235 PSI rated	10,000	LF	\$ 30.00	\$ 300,000.00
3	6" Gate Valves	7	EA	\$ 1,500.00	\$ 10,500.00
4	Air Relief Valves	2	EA	\$ 2,750.00	\$ 5,500.00
5	Altitude Valve & Vault	1	EA	\$ 30,000.00	\$ 30,000.00
6	110,000 gallon Water Storage Tank	1	LS	\$ 165,000.00	\$ 165,000.00
7	Master Meter	1	EA	\$ 10,000.00	\$ 10,000.00
8	Road Excavation and Repair - Unpaved Open Cut	2,400	LF	\$ 26.00	\$ 62,400.00
9	Paved Road Crossing - Bore with Casing	150	LF	\$ 480.00	\$ 72,000.00
10	Sipaulovi/Mishongnovi Disinfection Facility	1	EA	\$ 30,000.00	\$ 30,000.00
11	Power Extension to Disinfection Facility	1	EA	\$ 15,000.00	\$ 15,000.00
Construction Total:					\$ 700,400.00

Planning & Design Total (Schedule A)		\$ 25,000.00	
Construction Total (Schedule B)		\$ 700,400.00	
O&M Support Total (Schedule C)		\$ -	
Contingency (Schedules A, B, & C)		\$ 72,540.00	10.00%
		Subtotal	\$ 797,940.00
TERO/Tribal Tax		0.5%	\$ 3,989.70
Tribal Procurement 1=YES, 0=NO		1	
Tribal Administrative Support Fee			\$ 15,958.80
		Subtotal Tribal Fees	\$ 19,948.50
PROFESSIONAL FEES:			
IHS Engineering Program Support (EPS)		\$ 47,876.40	6.00%
		Subtotal Professional Fees	\$ 47,876.40
IHS Project Technical Support Fee (PTS)		\$ 119,691.00	15.00%
		Subtotal PTS	\$ 119,691.00
		Total Phase Cost	\$ 985,455.90
		Rounded	\$ 985,000.00